

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2005/000141

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7): A61K 41/00, A61N 5/06, A61K 31/409, A61P 17/10, A61K 31/07, A61K 31/203, A61K 31/555

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(7): IPC(7): A61K, A61N, A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

TechSource, WEST, Delphion/DWPI, Espacenet, Chemical Abstracts, PubMed, ChemIDplus, Highwire, ScienceDirect, Google/Scholar:

IPC and ECLA: A61K, A61N, A61P

Keywords: acne vulgaris, photodynamic therapy+photochemotherapy, blue light therapy+laser therapy, skin penetration+skin absorption+enhancer+solubilizer+related terms, photosensitizer+sensitization+related terms, porphyrin (green porphyrin, lemuporphin, verteporfin, et al), PEG+polyethylene glycol+vehicle+formulation+transdermal+related terms, retinoids+antibiotics+contraceptives+anti androgen

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO03039597 A1 (QLT INC.) 15 May 2003 examples; page 14, lines 22-25.	1-7, 13-19
Y	examples; page 2, lines 16-23; page 12, lines 21-30; page 14, lines 22-25; page 16, lines 13-14; claims 1-16	1-19
Y	US2002156062 A1 (QLT INC.) 24 October 2002 example 1; paragraphs [0006]	1-19
Y	US5955490 A (QUEEN'S UNIVERSITY AT KINGSTON) 21 September 1999 whole document; example 8	4, 7, 9-12
Y	WO03017824 A2 (LIGHT BIOSCIENCES, LLC) 3 March 2003 examples 1-8	9-12

Further documents are listed in the continuation of Box C.

See patent family annex.

Special categories of cited documents :	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

13 May 2005 (13-05-2005)

Date of mailing of the international search report

26 May 2005 (26-05-2005)

Name and mailing address of the ISA/CA  
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10/588571  
IAP11 Rec'd PCT/PTO 03 AUG 2006

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US6600951 B1 (GENERAL HOSPITAL CORPORATION) 29 July 2003 experimentals; column 11, line 27 to column13, line 33	9-12
A	WATT E.L., et al, "Dermatological Pharmacology" in <i>Goodman and Gilman's The Pharmacological Basis of Therapeutics</i> , 1809-11, 2000, 10 <sup>th</sup> edition, Pergamon Press.	9-12
A	HIRSCH R.J., et al, "Lasers, light, and acne", <i>Cutis</i> . 2003, 71(5), 353-4. (PMID:12769401)	9-12
T	CHARAKIDA A., et al, "Phototherapy in the Treatment of Acne Vulgaris-What is its Role?", <i>Am. J. Clin. Dermatol.</i> 2004, 5(4), 211-216. (PMID: 15301568)	1-19
T	TAUB A.F., "Photodynamic therapy in dermatology: history and horizons", <i>J. Drugs Dermatol.</i> 2004, 3(1 suppl.), S8-25. (PMID:14964757)	1-19
T	CEILLEY R.I., "Advances in topical treatment of acne and rosacea", <i>J. Drugs Dermatol.</i> 2004, 3(5 suppl.), S12-22. (PMID:15552595)	1-19

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### Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of the first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

1.  Claim Nos. : 1-14

because they relate to subject matter not required to be searched by this Authority, namely :

Although claims 1-14 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the photosensitizer composition or its combination with non-photodynamic therapy medicaments.

2.  Claim Nos. :

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :

3.  Claim Nos. :

because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**INTERNATIONAL SEARCH REPORT**

International application No.  
PCT/CA2005/O00141

Patent document cited in search report	Publication Date	Family Member	Publication date
WO03039597 A1	2003-05-15	BR0214004 A BR0214009 A CA2466425 A1 CA2466437 A1 EP1441767 A1 EP1443964 A1 US2004015214 A1 US2004029856 A1 WO03039596 A1	2004-11-03 2004-11-03 2003-05-15 2003-05-15 2004-08-04 2004-08-11 2004-01-22 2004-02-12 2003-05-15
US2002156062 A1	2003-10-24	CA2439500 A1 EP1377274 A2 JP2004532219T WO2003097 A2 ZA200306728 A	2002-10-24 2004-01-07 2004-10-21 2002-10-24 2004-09-17
US5955490 A	1999-09-21	AT287709 T AU624985 B2 AU674310 B2 AU3883293 A US888796 A AU6034390 A CA2126761 A1 CA2133741 A1 CA2133741 C CA2223522 A1 CA2461070 A1 DE69634250 D1 EP0634929 A1 EP0831909 A1 EP0831909 B1 EP1510225 A2 EP1510225 A3 JP2731032 B2 JP4500770 T KR178277 B1 NL194694 B NL194694 C NL9021172 A NO943774 A NO943774 D0 NZ251284 A US5079262 A US5211938 A US5211938 B1 US5234940 A US5422093 A US6710066 B2 US2001021370 A1 US2002058008 A1	2005-02-15 1992-06-25 1996-12-19 1993-11-18 1996-12-24 1991-03-11 1994-12-29 1993-10-28 2004-06-08 1996-12-12 1993-10-28 2005-03-03 1995-01-25 1998-04-01 2005-01-26 2005-03-02 2005-03-30 1998-03-25 1992-02-1 1999-03-20 2002-08-01 2004-02-10 1991-07-01 1994-12-01 1994-10-07 1997-07-27 1992-01-07 1993-05-18 1997-07-08 1993-08-10 1995-06-06 2004-03-23 2001-09-13 2002-05-16

## INTERNATIONAL SEARCH REPORT

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Patent document cited in search report	Publication Date	Family Member	Publication date
		US2003105163 A1	2003-06-05
		US2004110739 A1	2004-06-10
		US2004110818 A1	2004-06-10
		US2004110819 A1	2004-06-10
		US2004157905 A1	2004-08-12
		WO9101727 A2	1991-02-21
		WO9320810 A2	1993-10-28
		WO9320810 A3	1993-11-25
		WO9639188 A1	1996-12-12
WO03017824 A1	2003-03-03	BR0212142 A CA2457590 A1 EP1427482 A2 IL160505D D0 JP2005503388 T WO007824 A2	2004-08-24 2003-03-06 2004-06-16 2004-07-25 2005-02-03 2003-03-06
US6600951 B1	2003-07-29	CA2360202 A1 EP1140180 A2 US2004006328 A1 WO0040266 A2	2000-07-13 2001-10-10 2004-01-08 2000-07-13